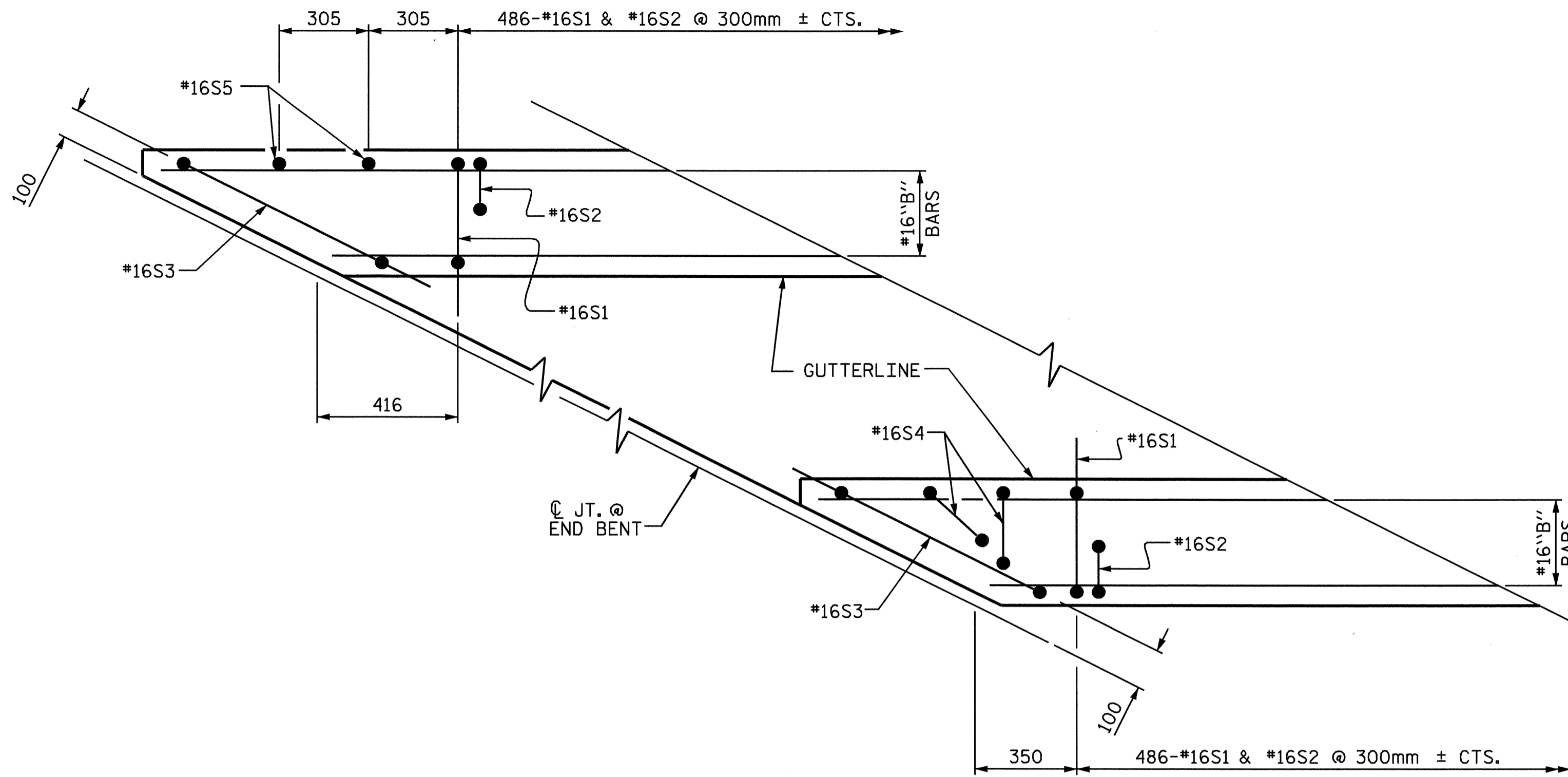


NOTES

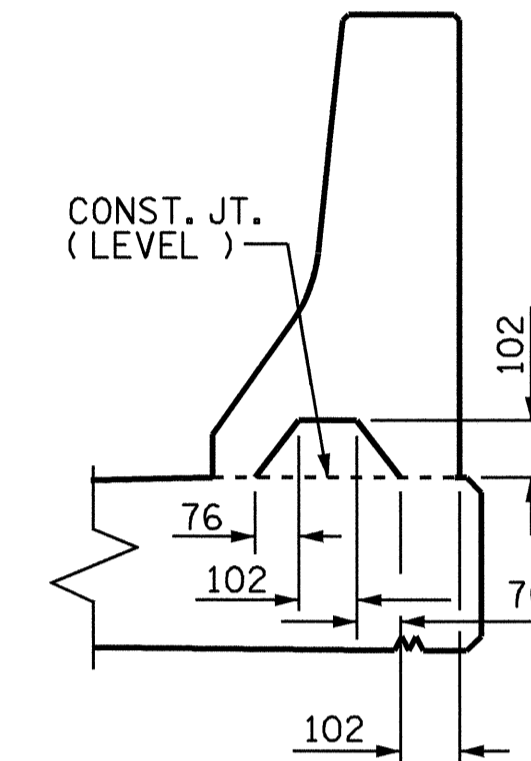
THE BARRIER RAIL IN EACH SPAN SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT SPAN HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 20.7 MPa.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

VERTICAL GROOVED CONTRACTION JOINTS, 12mm IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE JOINT IS REQUIRED AT MIDPOINT OF BARRIER RAIL SEGMENTS LESS THAN 6.1m IN LENGTH AND NO JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 3.5m IN LENGTH.

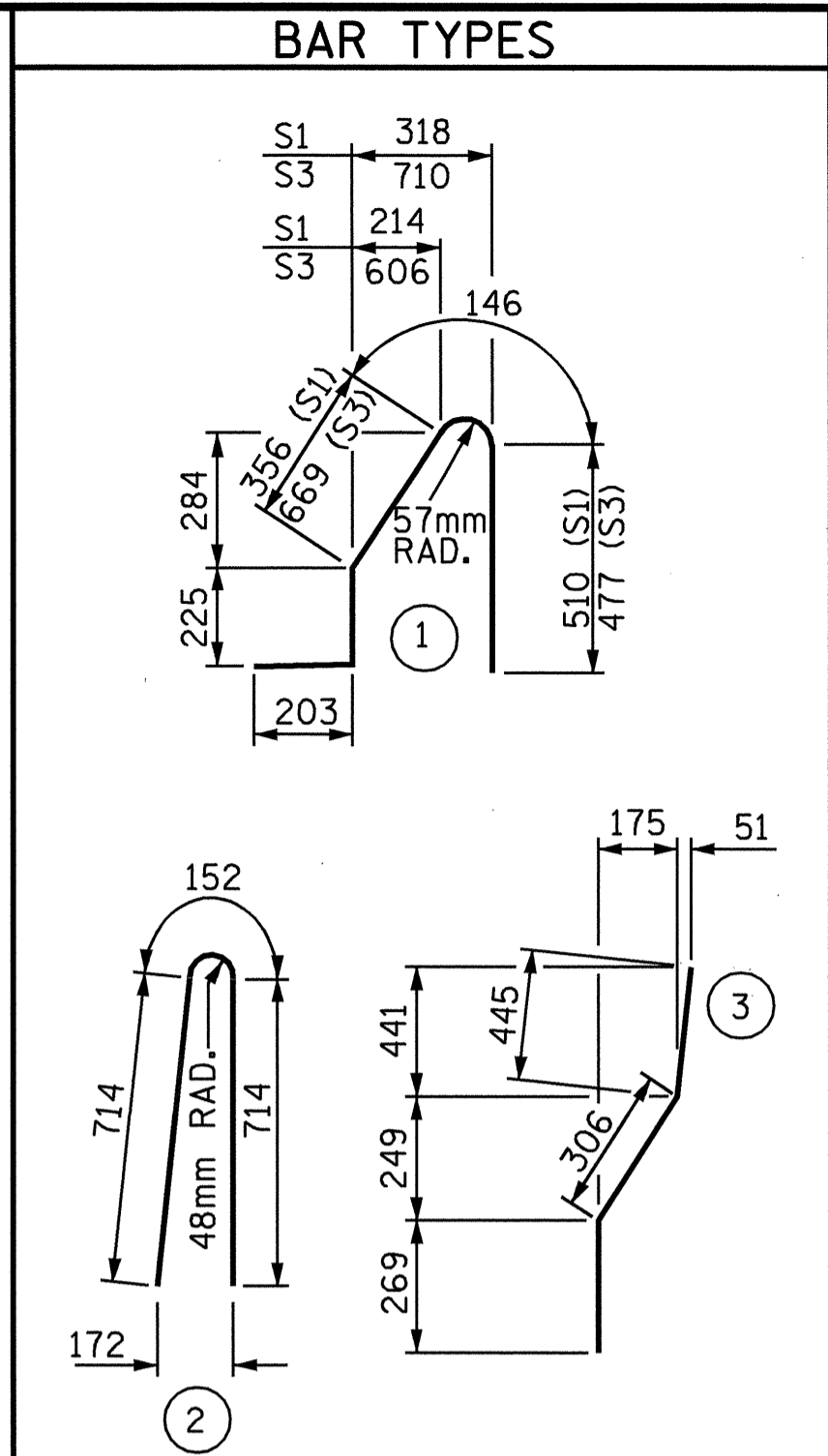


PLAN AT END OF RAILS



SECTION S-S

AT DAM IN OPEN JOINT
(THIS IS TO BE USED ONLY
WHEN SLIP FORM IS USED)

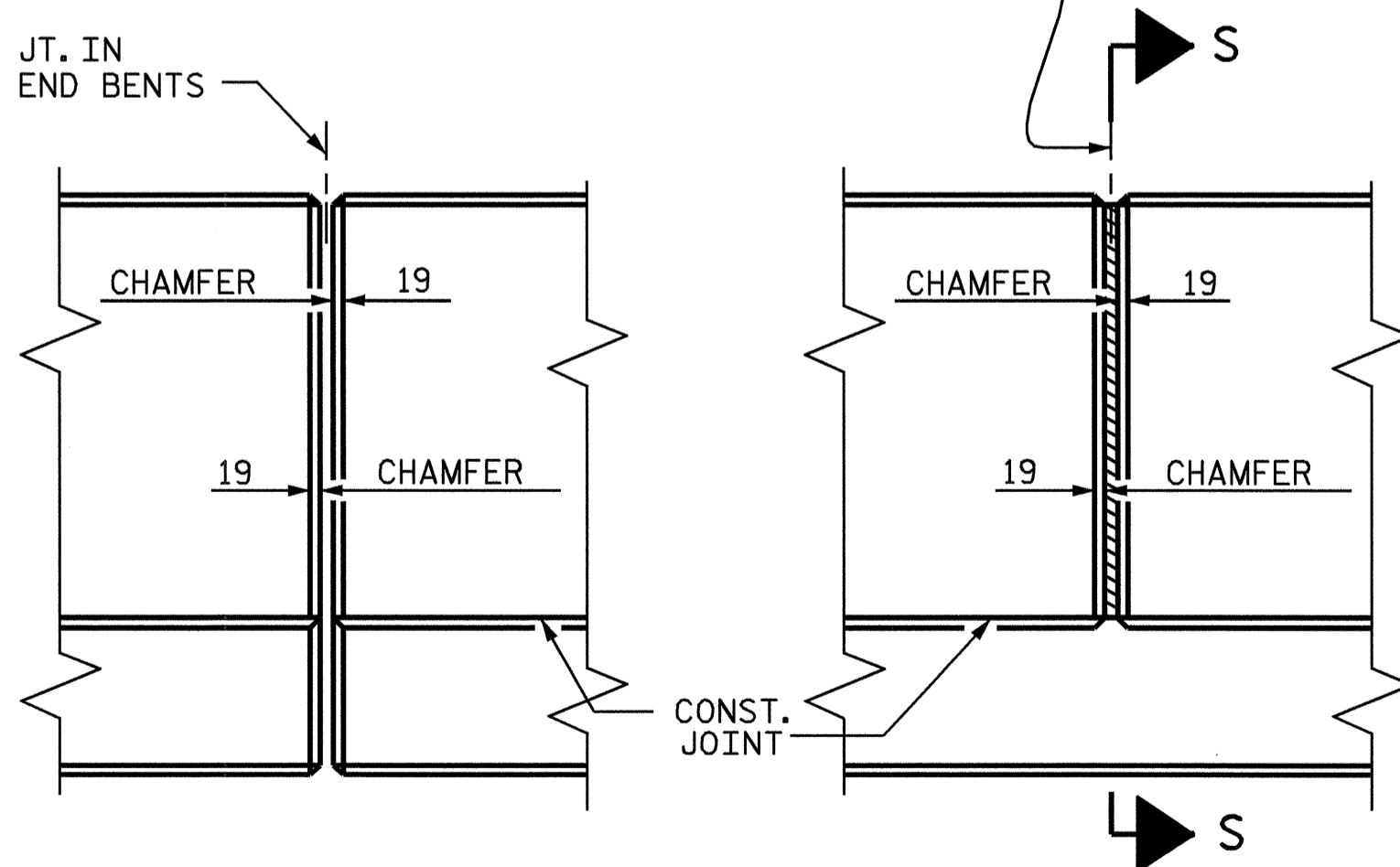


ALL BAR DIMENSIONS ARE OUT TO OUT

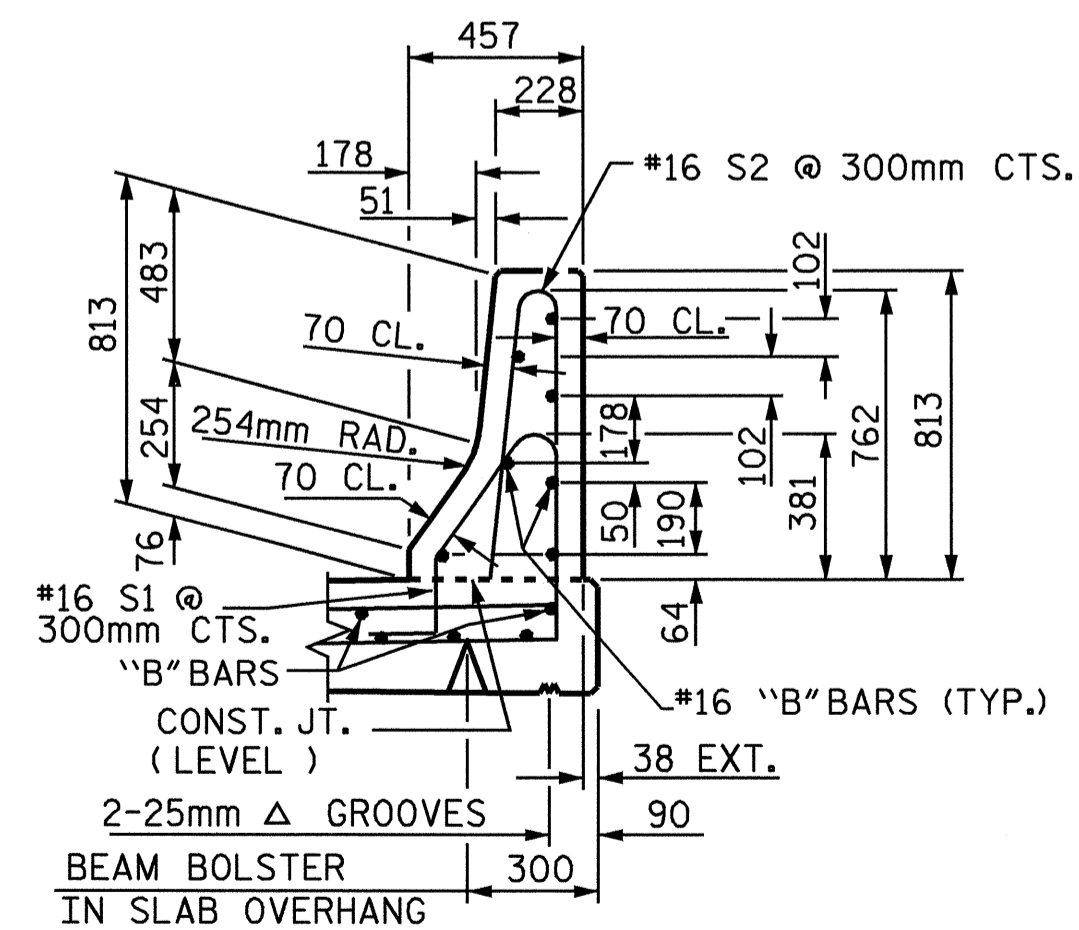
BILL OF MATERIAL					
FOR CONCRETE BARRIER RAIL ONLY					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	56	#16	STR	4900	426
* B2	210	#16	STR	8580	2796
* S1	972	#16	1	1440	2172
* S2	972	#16	2	1580	2383
* S3	4	#16	1	1720	11
* S4	4	#16	3	1020	6
* S5	4	#16	STR	960	6
* EPOXY COATED REINFORCING STEEL					7800 kg
CLASS AA CONCRETE				73.8	CU. METER
CONCRETE BARRIER RAIL				294.360	METERS

© 13mm EXP. JT. MAT'L HELD IN PLACE WITH GALVANIZED NAILS.
(NOTE: OMIT EXP. JT. MAT'L WHEN SLIP FORM IS USED.)

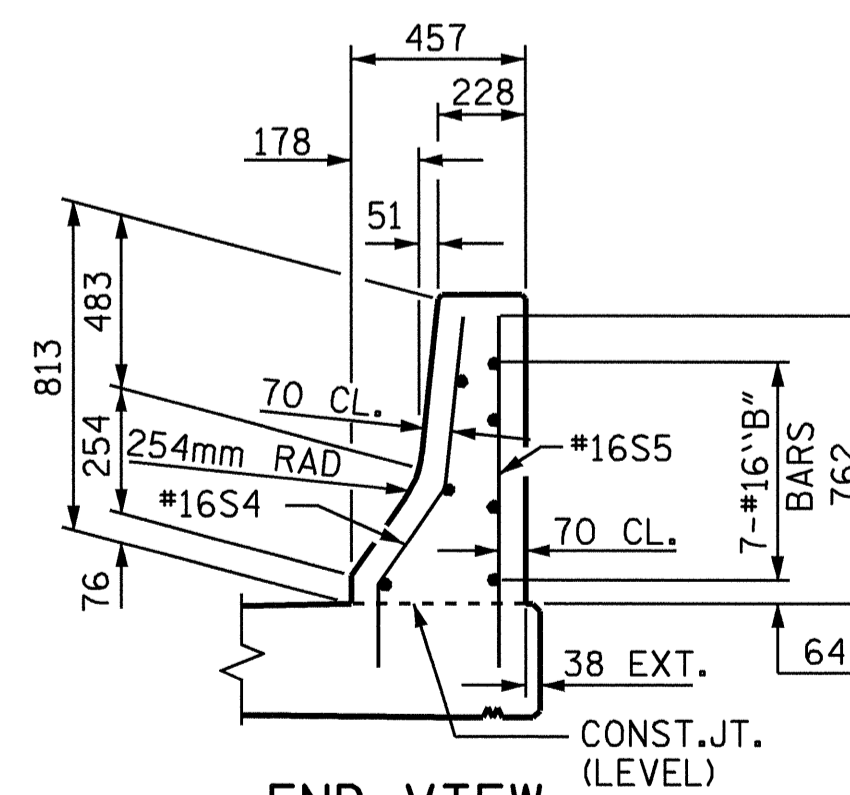
© OPEN JT. IN RAIL @ END BENTS



**ELEVATION AT EXPANSION JOINTS
BARRIER RAIL DETAILS**

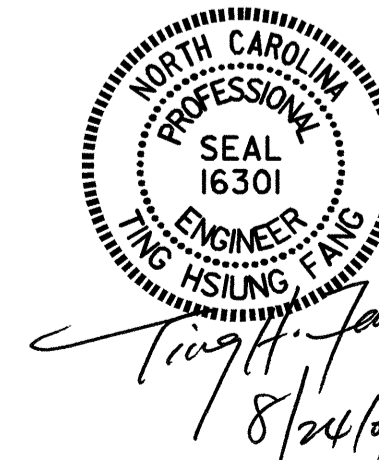


SECTION THRU RAIL



END VIEW

SEE "PLAN AT END OF RAILS" FOR LOCATION OF "S4" AND "S5" BARS



PROJECT NO. R-513A
ROBESON COUNTY
STATION: 18+64.065 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
**SUPERSTRUCTURE
CONCRETE BARRIER RAIL**

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-20
2			4			TOTAL SHEETS 172